

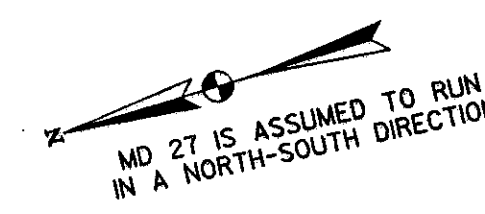
DRILL HOLES

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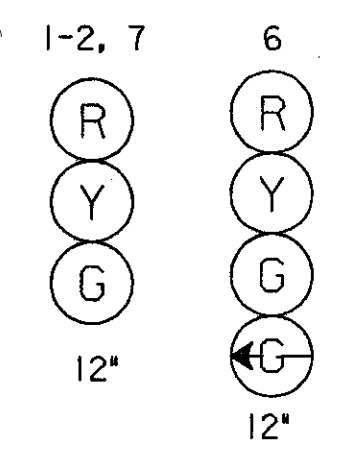
DRILL HOLES

BY: THOMPSON

BORDER REV. DATE: June 1, 2004

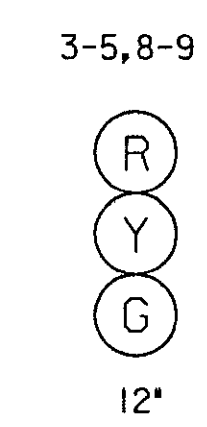


EXISTING SIGNALS HEADS TO REMAIN

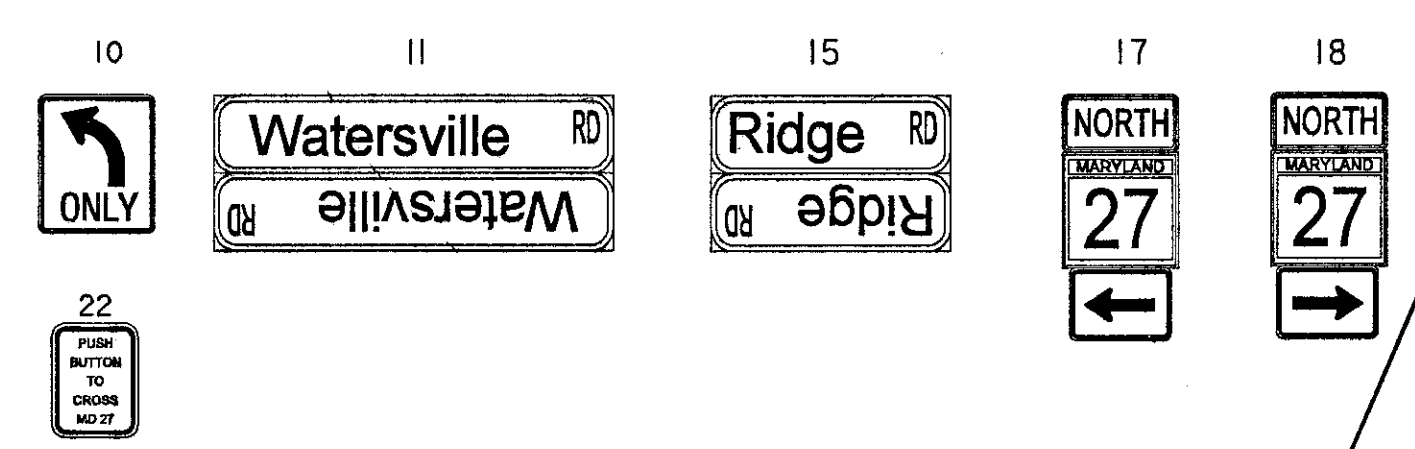


OPTICOM DETECTOR

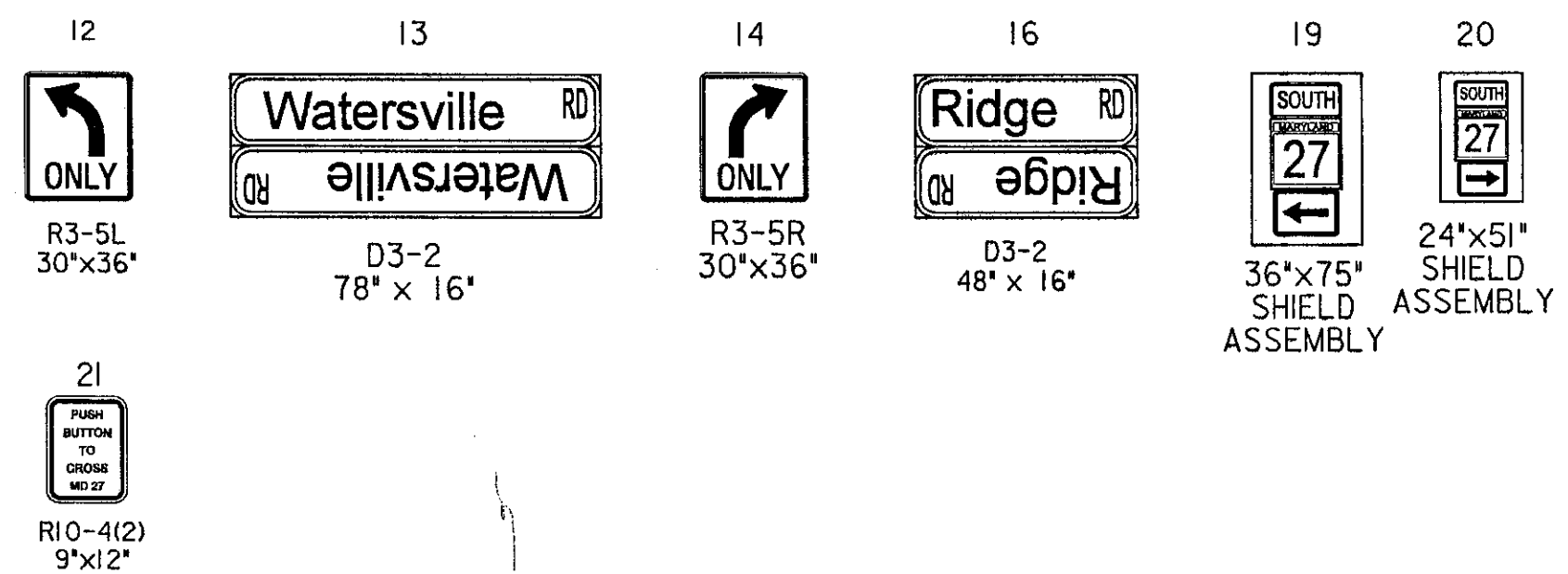
PROPOSED SIGNAL HEADS



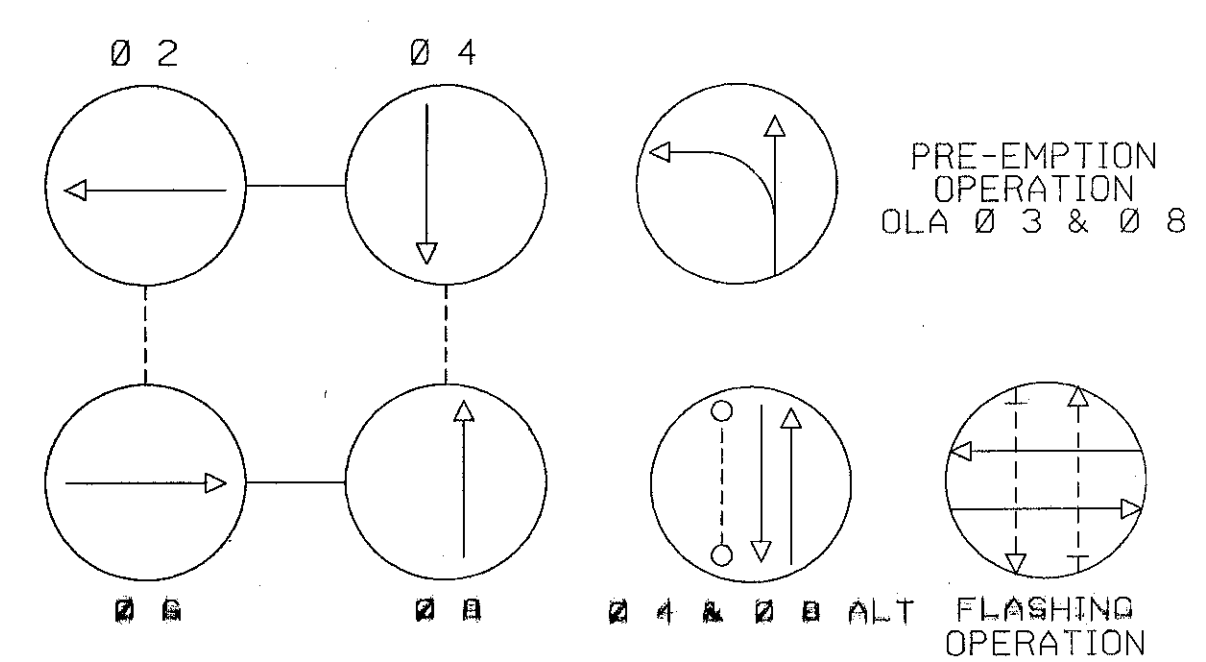
EXISTING SIGNS TO REMAIN



PROPOSED SIGNS



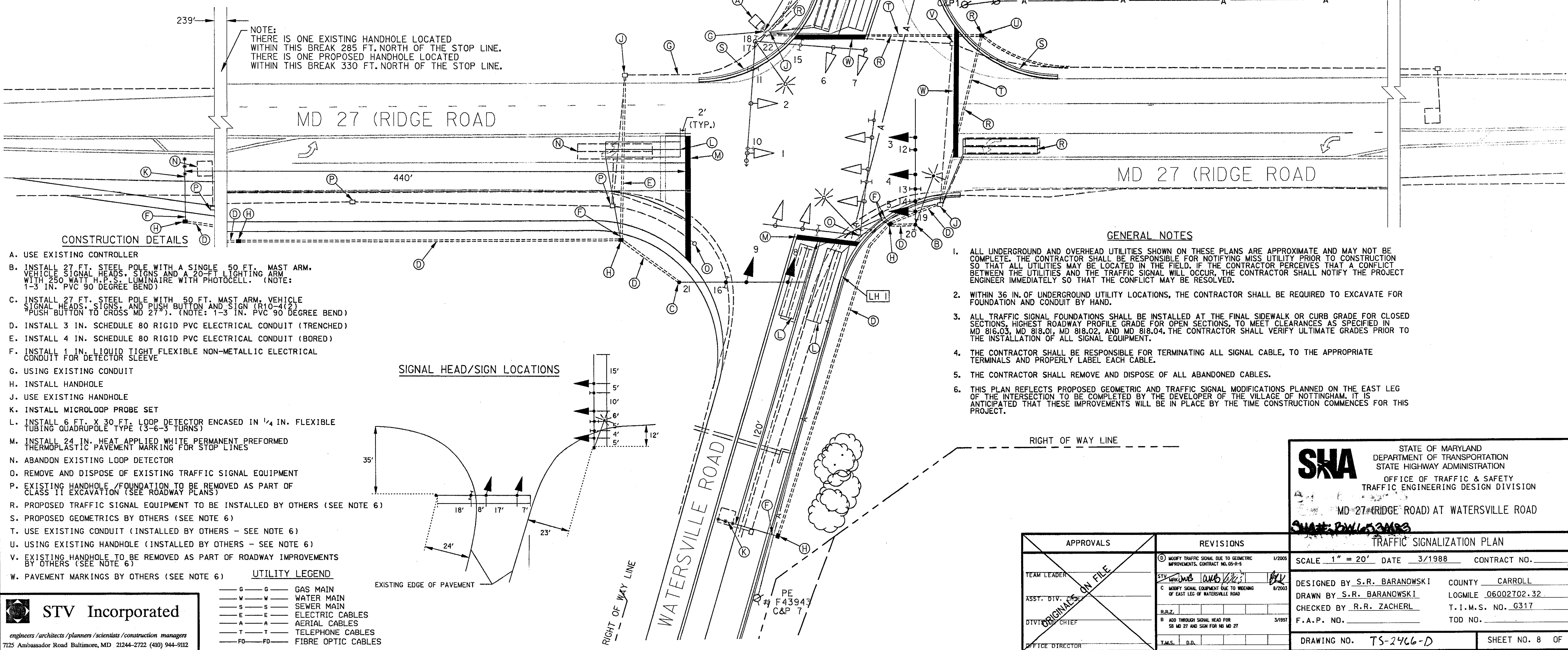
NEMA PHASING



PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

LINE HEIGHTS (LH) 1
SECONDARY (40'-0")
NEUTRAL (31'-2")
CABLE (25'-5")
CABLE (24'-0")
TELEPHONE (20'-4")
TELEPHONE (20'-2")
TELEPHONE (19'-10")

NOTE: THERE IS ONE EXISTING HANDHOLE LOCATED WITHIN THIS BREAK 250 FT. SOUTH OF THE STOP LINE.



- CONSTRUCTION DETAILS**
- USE EXISTING CONTROLLER
 - INSTALL 27 FT. STEEL POLE WITH A SINGLE 50 FT. MAST ARM, VEHICLE SIGNAL HEADS, SIGNS AND A 20-FT LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL. (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
 - INSTALL 27 FT. STEEL POLE WITH 50 FT. MAST ARM, VEHICLE SIGNAL HEADS, SIGNS, AND PUSH BUTTON AND SIGN (R10-4(2) PUSH BUTTON TO CROSS MD 27). (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
 - INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
 - INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
 - INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT FOR DETECTOR SLEEVE
 - USING EXISTING CONDUIT
 - INSTALL HANDHOLE
 - USE EXISTING HANDHOLE
 - INSTALL MICROLOOP PROBE SET
 - INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING QUADRUPOLE TYPE (3-6-3 TURNS)
 - INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINES
 - ABANDON EXISTING LOOP DETECTOR
 - REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
 - EXISTING HANDHOLE / FOUNDATION TO BE REMOVED AS PART OF CLASS II EXCAVATION (SEE ROADWAY PLANS)
 - PROPOSED TRAFFIC SIGNAL EQUIPMENT TO BE INSTALLED BY OTHERS (SEE NOTE 6)
 - PROPOSED GEOMETRICS BY OTHERS (SEE NOTE 6)
 - USE EXISTING CONDUIT (INSTALLED BY OTHERS - SEE NOTE 6)
 - USING EXISTING HANDHOLE (INSTALLED BY OTHERS - SEE NOTE 6)
 - EXISTING HANDHOLE TO BE REMOVED AS PART OF ROADWAY IMPROVEMENTS BY OTHERS (SEE NOTE 6)
 - PAVEMENT MARKINGS BY OTHERS (SEE NOTE 6)

UTILITY LEGEND

- G - GAS MAIN
- W - WATER MAIN
- S - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- FO - FIBRE OPTIC CABLES

- GENERAL NOTES**
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
 - WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
 - ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04, THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES.
 - THIS PLAN REFLECTS PROPOSED GEOMETRIC AND TRAFFIC SIGNAL MODIFICATIONS PLANNED ON THE EAST LEG OF THE INTERSECTION TO BE COMPLETED BY THE DEVELOPER OF THE VILLAGE OF NOTTINGHAM. IT IS ANTICIPATED THAT THESE IMPROVEMENTS WILL BE IN PLACE BY THE TIME CONSTRUCTION COMMENCES FOR THIS PROJECT.

STV Incorporated
engineers / architects / planners / scientists / construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

APPROVALS		REVISIONS		TRAFFIC SIGNALIZATION PLAN	
TEAM LEADER ASST. DIV. CHIEF DIVISION CHIEF OFFICE DIRECTOR	ORIGINAL ON FILE	①	MODIFY TRAFFIC SIGNAL DUE TO GEOMETRIC IMPROVEMENTS. CONTRACT NO. 05-9-5	1/2005	SCALE 1" = 20' DATE 3/1988 CONTRACT NO. _____
		STV	_____	_____	_____
		C	MODIFY SIGNAL EQUIPMENT DUE TO WIDENING OF EAST LEG OF WATERSVILLE ROAD	8/2003	DESIGNED BY S.R. BARANOWSKI COUNTY CARROLL
		R.R.Z.	_____	_____	DRAWN BY S.R. BARANOWSKI LOGMILE 06002702.32
		B	ADD THROUGH SIGNAL HEAD FOR SB MD 27 AND SIGN FOR NB MD 27	3/1997	CHECKED BY R.R. ZACHERL T.I.M.S. NO. G317
		T.M.S.	D.D.	_____	F.A.P. NO. _____ TOD NO. _____
				DRAWING NO. TS-2466-D	SHEET NO. 8 OF 17

PLOTTED: 01/18/2005 10:31:14 AM
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